Wyse WSM

Deliver the Power of a PC, Without the Complexity

Introducing a powerful thin-computing software solution that delivers your operating system and applications on demand. Wyse WSM 1.2 software gives IT the ability to make stateless thin computers function just like a personal computer, but with the much simpler administration and management of a thin computer.

With Wyse WSM, IT administrators can gain the granular control they need to ensure the consistency of deployed software across the enterprise. It complements existing thin-computing solutions, while also dramatically reducing the IT time and costs of delivering and maintaining software throughout an enterprise. By deploying operating system and applications patches centrally, downtime and IT staff time is greatly reduced. Each end user simply reboots their desktop to ensure that the client software is upgraded to the latest patch level.

Wyse WSM packages and delivers a standardized operating system and necessary applications independently to a stateless thin computer. The thin computer then runs the operating system and applications locally, but all of the files and applications reside at on the server, where they are much easier to back up, manage, and maintain.

With the flexibility to deploy applications independent of the streamed operating system, Wyse WSM allows customers to standardize operating system images across their organization and deliver applications based on user roles and responsibilities. Administrators can also easily provision new applications or updates to existing applications without having to modify the operating system image.

Sold and Supported by:

Features	Benefits
On-demand delivery of operating system and applications to stateless devices	Allows administrators to easily deploy operating system and applications to "stateless" computing devices from a central location without having to visit the desktop.
Built-in high availability	Delivers resilience to server failure without redundant hardware
Fast and easy deployment of new applications	Provides easy deployment of new applications to all desktops at any time from a central location to respond to changing needs of the enterprise.
Application license management and metering	Offers real-time license metering and control over the number of application licenses used within the enterprise. Prevent piracy and reduce costs by purchasing licenses based on usage patterns.
Centralized management of software updates and patches	Allows operating system and application patches and updates to be made on the server to ensure software consistency across the enterprise. This also eliminates downtime for upgrades.
Remote servers deliver increased scalability	Scales deployment to tens of thousands of desktop devices using a tiered server deployment.
Application subscription management	Provides flexible application provisioning so administrators can allow users to subscribe to individual applications, auto-subscribe the applications for the user, or specify mandatory applications which cannot be unsubscribed by the user.
Comprehensive reporting tools	Delivers fast system reports about application and system usage.
Protected system drive	Allows fast recovery from virus attacks and security hazards by protecting the system drive from unauthorized modifications.
Instantaneous recovery from hardware failure	Recovers from hardware failure simply by replacing the device with a new one. All user data, applications, and operating system will automatically download to the new device.
Simultaneously supports distributed and centralized computing models	Empowers administrator to decide where applications are executed. Applications can be executed on the stateless desktop, or through Citrix Presentation Server and/or Microsoft Terminal Services, based on the requirements of the application and your IT strategy.

Wyse WSM includes:

- Windows Server-based services that manage the streaming of the operating system and applications
- An easy-to-use operating system image-creation tool for IT administrators to create and deploy operating system images
- An application packager that allows IT administrators to create and deploy application images
- A centralized web-based management interface

Wyse WSM works with Wyse V00L, Wyse V00LE, and Wyse 941GXL thin computers, as well existing thin computers, PCs, and virtual-desktop systems.

Improve Security

When you deploy Wyse WSM with thin computers, those desktop systems have no value unless connected to the corporate network, making your corporate environment more secure. Additionally, the system drive is protected by design, preventing virus attacks and other security hazards. Recovering from a desktop hardware loss or failure is as simple as replacing the desktop system. Software failures can be corrected by overwriting the virtual system drive.

Improve Productivity

With Wyse WSM, you can give people the flexibility of PCs while enjoying the manageability of a thin-computing infrastructure. It delivers the benefits of thin computing throughout your enterprise.

Improve Manageability

IT departments can use Wyse WSM to deploy operating systems and applications centrally to PCs and virtual desktop servers. This dramatically simplifies the provisioning of software, updates, upgrades, patches, and fixes. It also helps you better manage licenses and usage, by tracking both automatically.

Improve Flexibility

Wyse WSM also give IT the ability to make adds/changes/moves without ever leaving the data center. You can provision new employees and locations in just minutes, and you don't need any local IT support at remote sites. Everything is handled from the data center or even remotely via the web interface.

About Wyse Thin Computers

Because Wyse thin computers have no moving parts, they deliver greater reliability, availability, and lower cost of ownership than other solutions. With no local storage, malware is dealt with at the server level, where it's easier to detect. There is also no way to remove information, so sensitive data stays on the server and remains compliant with privacy regulations.

Today our software makes it easy to manage, update, and even service any thin computer from one central location. Additionally with solid-state technology, Wyse thin computers are nine times more reliable than PCs because there are no moving parts. And even if a device does fail, the data remains instantly available on the server.

Wyse 941GXL

The flexible Wyse 941GXL Windows XPe thin computer features a powerful CPU, local application support, rich embedded browser, legacy ports, optional expandable storage, and lightning-fast performance for local applications.

Hardware

Processor	Via C3
Memory	512MB Flash/256MB DDR RAM Other configurations (up to 2GB/1GB) available
I/O Peripheral Support	■ VGA-type video output (DB-15) ■ Enhanced PS/2 keyboard with Windows keys ■ PS/2 mouse included ■ Two PS/2 ports ■ Serial port up to 115.2K Baud,DB-9 ■ Four USB 2.0 ports ■ Bi-directionaly Centronics-compatible parallel port, DB-25 ■ PCI slot for adding local storage (CD-ROM, 20GB HD, floppy, PCI-PCMCIA adapter)
Networking	■ 10/100 Base-T Fast Ethernet twisted pair (RJ-45)
Display Support	■ VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate ■ 16-bit/64K colors: up to 1280x1024@85Hz up to 1600x1200@60Hz ■ 24-bit/16.7M colors: up to 1024x768@85Hz
Audio	■ Output: 1/8-inch mini, full 16-bit stereo, 48KHz sample rate
Physical Characteristics: Height Width Depth Shipping Weight	2.7 inches (68mm) 11.9 inches (300mm) 11.4 inches (290mm) 12.8 lbs. (5.8kg)
Mountings	Optional mounting bracket and desktop stand
Power	Worldwide auto-sensing 100-240v VAC, 50/60 Hz
Regulatory Compliance: Ergonomics Safety RF Interference Environmental	German EKI-ITB 2000, ISO 9241-3/-8 cULus 60950, TÜV-GS, EN 60950 FCC Class B, CE, VCCI, C-Tick WEEE
Warranty	Three-year limited warranty

Wyse V00L	**Wyse V00LE**
The mid-range Wyse V00L thin computer delivers the Windows XPe performance you need; dual-video support (with purchase of optional monitor splitter cable); a CardBus/PCMCIA slot; plus serial, parallel, and USB ports. Using the same form-factor as the Wyse V class line, the Wyse V00L can fit easily into most work environments.	The high-range Wyse V00LE thin computer delivers the Windows XPe performance you need; dual-video support (with purchase of optional monitor splitter cable); a CardBus/PCMCIA slot; plus serial, parallel, and USB ports. Using the same form-factor as the Wyse V class line, the Wyse V00LE can fit easily into most work environments.
Via C7 Eden 800MHz	Via C7 Eden 1.2GHz
0MB Flash/512MB RAM	0MB Flash/256MB DDR RAM Other configurations (up to 1GB) available
■ One DVI-I Port ■ One DVI-I Port to VGA (DB-15) Adapter ■ Dual-video Support with: - Optional DVI-I to DVI-D plus VGA-monitor splitter cable (sold separately) ■ Enhanced USB keyboard with PS/2 mouse port and Windows keys (104 keys) ■ PS/2 mouse included ■ One serial port ■ One parallel port ■ Three USB 2.0 ports ■ CardBus/PCMCIA card slot	■ One DVI-I Port ■ One DVI-I Port to VGA (DB-15) Adapter ■ Dual-video Support with: - Optional DVI-I to DVI-D plus VGA-monitor splitter cable (sold separately) ■ Enhanced USB keyboard with PS/2 mouse port and Windows keys (104 keys) ■ PS/2 mouse included ■ One serial port ■ One parallel port ■ Three USB 2.0 ports ■ CardBus/PCMCIA card slot
■ 10/100 Base-T Fast Ethernet twisted pair (RJ-45)	■ 10/100 Base-T Fast Ethernet twisted pair (RJ-45)
■ VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate ■ Single Monitor at 32-bit color: up to 1600x1200@85Hz up to 1920x1080@60Hz ■ Dual Monitors used simultaneously (requires optional monitor splitter cable) at 32-bit color: up to 1920x1080@60Hz	■ VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate ■ Single Monitor at 32-bit color: up to 1600x1200@85Hz up to 1920x1080@60Hz ■ Dual Monitors used simultaneously (requires optional monitor splitter cable) at 32-bit color: up to 1920x1080@60Hz
■ Output: 1/8-inch mini, full 16-bit stereo, 48KHz sample rate ■ Input: 1/8-inch, 8-bit mini microphone	■ Output: 1/8-inch mini, full 16-bit stereo, 48KHz sample rate ■ Input: 1/8-inch, 8-bit mini microphone
7.9 inches (201mm) 1.8 inches (46mm) 7.1 inches (180mm) 8 lbs. (3.6kg)	7.9 inches (201mm) 1.8 inches (46mm) 7.1 inches (180mm) 8 lbs. (3.6kg)
Vertical foot (optional horizontal feet) Optional VESA mounting bracket Built-in Kensington security slot (cable sold separately)	Vertical foot (optional horizontal feet) Optional VESA mounting bracket Built-in Kensington security slot (cable sold separately)
Worldwide auto-sensing 100-240 VAC, 50/60 Hz Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: 17.2 Watts/hour	Worldwide auto-sensing 100-240 VAC, 50/60 Hz Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: 17.2 Watts/hour
German EKI-ITB 2000, ISO 9241-3/-8 cULus 60950, TÜV-GS, EN 60950 FCC Class B, CE, VCCI, C-Tick WEEE, RoHS Compliant	German EKI-ITB 2000, ISO 9241-3/-8 cULus 60950, TÜV-GS, EN 60950 FCC Class B, CE, VCCI, C-Tick WEEE, RoHS Compliant
Three-year limited warranty	Three-year limited warranty

Wyse WSM 1.2 Software

Device Hardware Requirements	■ Minimum processor 800MHz ■ Minimum memory 256MB	■ Flash size/local storage – none needed. If the device has flash it will be disregarded.
Server Requirements	■ Minimum processor speed 1GHz (3GHz or higher is recommended) ■ Minimum LAN card = 100Mbps (1Gbps recommended)	■ Server Operating System - Windows Server 2000 SP3 or higher - Windows Server 2003 or higher
Network Requirements	■ Minimum LAN Speed = 10Mbps	■ 100Mbps duplex is recommended
Operating Systems Supported	■ Microsoft Windows XP Professional ■ Microsoft Windows XP Embedded	■ Microsoft Windows 2000 professional
Databases Supported	■ Microsoft SQL Server	
Built-in High Availability	■ Database availability using SQL clustering. ■ Server high availability possible without requiring redundant hardware.	
Fast and Easy Installation	■ Installing Wyse WSM is simply a matter of running a single, graphical installer.	■ The installer checks for all the prerequisite components before installation.
Web-based Admin Console	■ Allows IT administrators to access Wyse Streaming Manager from any browser. ■ Control the entire installation from a central location.	■ Dramatically simplifies administration, saving IT time and user downtime. ■ Wizards to guide the user through specific tasks.
Operating System and Application Imaging Tools	■ Imaging tool simplifies the process of creating an operating-system image for the specific hardware configuration and an application image for all hardware configurations.	■ All OS and application images are ready for deployment once created, no further modifications needed.
Application Subscription Management	■ Use flexible application deployment methods: - Auto-subscribed applications are ready for use when user logs in for the first time. - Manual subscriptions allow users the flexibility to use applications only when needed. - Mandatory subscriptions that cannot be unsubscribed by users.	
Protected System Drive	■ Allows administrators to protect the system drive from end-user initiated updates.	■ Prevents changes to operating system drive except by administrators, helping stop viruses, spyware, or malware from infecting the device.
Operating System Streaming	■ Wyse WSM provides an on-demand operating system to thin-computers on the network. ■ Only those bits needed for the normal device operation are sent in order to reduce network traffic.	■ Innovative technology makes each thin computer think there is a virtual hard disk attached to the device. ■ Operating-system images can be shared across multiple devices, making management easier.
Flexible Boot Options	■ Each device can boot from four operating system image assignments. ■ User select mode for providing users the flexibility to choose which OS to boot from.	■ First disk mode for the default OS image to boot from every time device starts up. ■ First available mode to boot from the first responding server in order to balance loads.
Application License Management and Metering	■ Wyse WSM provides the infrastructure to collect information about the application license-usage across the enterprise. This information allows IT organizations to save money associated with application licenses.	■ Licenses can be stored for all the applications deployed. It also enforces license compliance. ■ Types of licenses that can be controlled include: - Time-based licenses (valid for X days). - Number of concurrent users.
Modes of Operation	Wyse WSM allows administrators to choose modes of operation for the operating system: - **Private Mode** – for administration of operating system images.	- **Shared Mode** – has two additional modes of normal operation: - *Volatile* – returns desktop to pristine state after a device reboot. - *Persistent* – remembers any user settings after a device reboot.
Remote Servers for Scalability	■ IT administrators can deploy multiple remote servers to improve scalability of the overall solution.	■ Central management of remote servers allows easy deployment of the solution across different geographic locations.
Comprehensive Reporting	■ Easy ad-hoc reporting based on flexible parameters. ■ Reports are delivered through HTML, giving you the flexibility to output in any form.	■ License-metering reports can be used to make proactive purchasing decisions. ■ License-audit reports can be used for compliance purposes.
Desktop Compatibility	Wyse WSM works with Wyse V00, Wyse V00L, V00LE, and Wyse 941GXL thin computers as well as with existing thin computers, personal computers, and virtual-desktop systems.	